	1. Responses a succional description and a succional description of the succession of the s		Metado estado o Caralle III e electrona		
DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
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Umesh Kumar (	Gupta, Campus Head				
FIRM NAME	- 1011 - 1	STREET ADDRESS	2 0 77111		
Cadila Health	ncare Limited		9 & 420 8a Village-Moraiya		
	ujarat, 382210 India	Drug Manu			
observations, and do observation, or have action with the FDA	observations made by the FDA representative(s) not represent a final Agency determination regaining temperature, or plan to implement, corrective a representative(s) during the inspection or submitted FDA at the phone number and address above	rding your com action in respons t this information	pliance. If you have an objection re se to an observation, you may discu	egarding an uss the objection or	
DURING AN INSPEC	TION OF YOUR FIRM WE OBSERVED:				
Equipment and	utensils are not cleaned and maintai	ned at appro	opriate intervals to prevent	contamination	
that would alter	the safety, identity, strength, quality	y or purity o	of the drug product.		
		57957555575	-19		
	s were observed on surfaces of clear		equipment. Cleaning pro	cedures do not	
include provisions for routine cleaning or inspection of the (b) (4) duct area.					
a. Non-dedicated (b) (4) equipment CH/TS/013 had residues in the (b) (4) duct and on the					
	back of the (b) (4) on April 24, 2019. The equipment was identified as clean. This			s clean. This	
equipment has been used in the manufacture of tablets with (b) (4) active					
ingre	edients including (b) (4)				
			2007		
	. Tablet batches of (b) (4		, (b) (4)	, and	
(b) (4)	manufactured on this equipment	nent have be	een distributed to the US n	narket.	
h Non	-dedicated (b) (4) equipment CH/	MC/TAD/10	999/19 had residues in the	(b) (4) duct	
	(1-) (4)		2019. QC testing detected to		
the f	Collowing APIs in the residue: (b) (4)		(b) (4) (b) (4)	(b) (4)	
(b) (4)	(b) (4) (b)	(4)	(b) (4) (b) (4)	,	
(b) (4)	,	. This	,	on used to	
S 5/05 5/	, and	. 11115	equipment has be	sell used to	
	- Table (April 1947) - A. N. (1947)			W-WOOMPHADO BRADADAA	
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OF THIS PAGE	Drug Cadre	Deuroat	Justin A Boyd Investigator - Dedicated Drug	5/5/2013	
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Umesh Kumar Gupta, Campus Head				
FIRM NAME Cadila Healthcare Limited	STREET ADDRESS	0 8a Vi	llage-Moraiya	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHM		22	
Ahmedabad, Gujarat, 382210 India	Drug Man	uracture	÷I.	
manufacture tablet products for the US market including, but not limited to: (b) (4) , (b) (4) , and (b) (4) .  c. Non-dedicated (b) (4) equipment CH/MC/TAB/2009/333 had (b) (4) residues on the back of the particles were observed on the front side of the (b) (4) and on surfaces in the (b) (4) and (		residues on ally, (b) (4) in the (b) (4) red was a used to (4) quipment has limited to:  (4) 9/11, ces of US market.  runsmooth were tagged		
SEE REVERSE OF THIS PAGE  Drug Cadre Thomas J Arista, National E Rita K Kabaso, Office of In Programs Employee	xpert		Justin A Boyd Investigator - Dedicated Drug Cadre X Signed By 2000358696 Date Signed 05-03-2019 10 40 56	DATE ISSUED 5/3/2019

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FIRM NAME	STREET ADDRESS		
Cadila Healthcare Limited	419 & 420 8a Village-Moraiya		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer		
2 m (b) (4)	11: 1 (6)(4)		
	ed during the manual transfer of the sterile (b) (4)		
stoppers during the aseptic filling proces	ss appears to have some form of visible scoring on the (b)		
surface, there are several dents on the	body and the chute's inlet and outlet ports have rough		
and uneven edges that are not smooth, cl			
2-1-			
4. Manufacturing equipment including (b) (4	were observed to contain visible dents on		
	equipment. A mallet is used on the exterior surface of the		
(b) (4) to remove drug product a			
to remove drug product a	different inside the		
ODCEDNATION 2			
OBSERVATION 2			
Procedures designed to prevent microbiological contamination of drug products purporting to be sterile			
are not established and followed.			
1 D 1 0201 COD MEC 00506 "C:	1.1' C W 1.' A		
1. Procedure 0301-SOP-MFG-00506 "Guidelines for Working in Aseptic Area" requiring operators			
to not lean over sterilized containers or closures and not to obstruct laminar air flow was not			
followed:			
a. During stopper addition for (b) (4)	injection batch (b) (4) on		
	sed their hands over the opened bag of sterile stoppers		
during bag (b) (4) and handling.	When the stoppers were poured into the stopper chute,		
the operator's hands were over the			
b. During filling of (b) (4)	injection batch (b) (4) there were six		
interventions to remove a fallen			
	ne restricted access barrier system (RABS) (b) (4) to		
reach over open, sterile vials at the	he vial (b) (4) . These vials were not cleared. The		
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OF THIS PAGE Drug Cadre Thomas J Arista, National	Justin A Boyd investigator - Dedicated Drug Cardre Stoner By 2000358585		
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Rita K Kabaso, Office of International

Programs Employee

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
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Umesh Kumar Gupta, Campus Head				
Cadila Healthcare Limited	street ADDRESS 419 & 420 8a Village-Moraiya			
CITY, STATE, ZIP CODE, COUNTRY  TYPE ESTABLISHMENT INSPECTED				
Ahmedabad, Gujarat, 382210 India Drug Manufacturer				
Non-(b) (4) Quality Assurance Deputy General Manager confirmed the (b) (4) are not sterile and operators are permitted to use the requiring the need to clear the vials.  2. During the aseptic filling operations performed in Fill Line (b), we observed personnel enter into and out of the Grade A area via the (b) (4) glass vial conveyor that is positioned subsequent the glass vial stoppering process (Note: there is a similar glass vial conveyor system for Fill Line (b). We observed this activity on numerous occasions with the (b) (4) RABs access (b) (4) remaining open for approximately 3 to 4 minutes at a time. There is no SOP and/or language in the manufacturing batch record to describe and establish the manner of how personnel access and personnel activities are to be performed while in the Grade A conveyor area.				

### **OBSERVATION 3**

Procedures designed to prevent microbiological contamination of drug products purporting to be sterile did not include adequate validation of the aseptic process.

Regarding the aseptic processing simulation of the subject to the steps in that the media filled vials that are exposed during the fill room operators' manual interventions are removed from the batch of the media filled vials. In addition;

1. The media filled vials that are removed during the manual interventions and culled from the media filled batch and are not subject to the routine aseptic filling process. For example, media fill batch number (b) (4) dated January 16, 2019 documents the removal of 1,328 media filled vials. The production operator and Senior Executive explained that the 1,328 media filled vials were placed on a collection (b) (4) under LAF conditions, which is the location where the (b) (4) stoppers are (b) (4) manually, on the glass vials. Following the manual process of

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	Rita K Kabaso, Office of International	A Base Signed 60-60-2015 10-40-30	
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Rockville, MD 20857	FEI NUMBER 3002984011	
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(b) (4) the (b) (4) stoppers on to the media filled vials, they are transferred to an that feeds into the vial (b) (4) station. The aforementioned manual operations and processing steps are not part of the routine aseptic filling process for finished drug products;

2. The above practice is commonly performed for all media fill simulations performed in (b) (4) Facility (b) e.g.

Batch number	Container	Date of Mfg.	# of culled units
(b) (4)	(b) (ml (b) (4) USP (b) (4) (b) (4) Glass vials	(b) (4)	881
(b) (4)	(b) (d) (d) USP (b) (4) (d) Glass vials	(b) (4)	1354
(b) (4)	(b) (4) USP (b) (4) (6) (4) Glass vials	(b) (4)	652
(b) (4)	(b) (d) (d) USP (b) (4) (d) (d) (d) (d) (d) (d) (d)	(b) (4)	737
(b) (4)	(b) ml (b) (4) USP (b) (4) Glass vials	(b) (4)	1292
(b) (4)	(b) (a) USP (b) (4) USP (b) (4) Glass vials	(b) (4)	1262
(b) (4)	(b) ml (b) (4) USP (b) (4) Glass vials	(b) (4)	1332

# **OBSERVATION 4**

Aseptic processing areas are deficient regarding air supply that is filtered through high-efficiency particulate air filters under positive pressure.

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12420 Parklawn Drive, Room 2032	4/22/2019-5/3/2019*			
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FIRM NAME	STREET ADDRESS			
Cadila Healthcare Limited	419 & 420 8a Village-Moraiya			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer			

- 1. The Airflow Visualization Test Protocol cum Reports (aka smoke studies) acceptance criteria includes (b) turbulence should be observed. Laminar visible smoke / air flow should be maintained inside the LAF. The visible smoke / air should move from the working zone to outside area." And, regarding the acceptance criteria during the material transfer from the (b) (4) zone to (b) (4) to filling room and (b) (4) zone to filling room, is as follows. The visible smoke / air should move from more critical area to less critical areas immediately while opening the (b) (4). However, there are a number of instances where either the personnel activities and/or production related equipment block the ability to view the laminar air flow, for example, the video does not capture when personnel are removing the stoppered vials out of the (b) (4) the personnel activities impact upon the laminar air flow, or the impact on the laminar air flow when moving equipment. In addition:
  - a. The air flow pattern evaluations for line (b) demonstrated air flowing (b) the stopper addition chute and creating turbulence where the laminar flow (b) (4) the stopper addition air meets with the air flowing (b) of the stopper chute.
  - b. The air flow pattern evaluations did not include an assessment of the air flow when manually transferring the (b) (4) media filled glass vials from the fill line to (b) (4) 2.
  - c. There is no air flow pattern evaluation performed to determine the impact upon the laminar airflow during the movement of the mobile transfer unit from the (b) zone to (b) (4).
  - d. There is no air flow pattern evaluation performed to ensure that the movement of HEPA filtered air from the Grade B does not enter into the Grade A (b) (4) area.
  - e. There is no air flow pattern evaluation for the routine intervention of removing fallen vials at the vial (b) (4) using the RABS (b) (4).

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FIRM NAME Cadila Healthcare Limited	street ADDRESS 419 & 420 8a Village-Moraiya	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer	
a. Analog (b) (4)  gauges are used the controlled and classified manufa connected (e.g., computer based sys pressure differences in a dynamic st pressure differentials via the use of manufacturing operations in the congood manufacturing practice techno	However, there are no air dynamic state of manufacturing operations. In addition; dto measure/monitor the air pressure differentials between acturing areas. The individual (b) (4) gauges are not stem) in a manner to collectively monitor all of the air tate of operation. The manner of monitoring real time air the analog (b) (4) gauges during routine atrolled and classified manufacturing areas is not current ology.	
b. There is no record to document the mm of water column air pressure differentials are maintained during routine aseptic filling operations to demonstrate that the requisite air pressures (e.g., (b) (4) positive air pressure to less positive or negative air pressures) are appropriately sustained.		
c. There are (b) (transfer (b) (4) used to move material into and/or out of the controlled and classified manufacturing areas. The transfer (b) (4) without an air flow unit (aka static (b) (4) and do not (b) (4) ) do not have an air pressure monitoring device (e.g., analog/digital gauge) and there is no record to document that the appropriate air pressures are maintained i.e., the lesser quality of air (non-classified) does not ingress into the controlled and classified manufacturing areas.		
3. On filling line (b), the stoppered filled g following the aseptic filling as they tray	glass vials are conveyed under Grade A conditions vel to the vial capping station located in room #(b) (4)	

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(Grade C). As the stoppered vials enter the capping station the they are no longer in a Grade A environment. Rather, the Senior Manager Quality Assurance explained that the air is intended to

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be unidirectional with no specific classification of the air;

There is no scientific rationale to support not maintaining the stoppered glass vials under Grade A conditions prior to the capping process.

# **OBSERVATION 5**

Aseptic processing areas are deficient regarding the system for monitoring environmental conditions.

- f. The EM trend data documents recurring microbial contamination via the personnel monitoring program. The EM data reveal certain individuals who appear to be a source for the Bacillus and Pseudomonas microbial contamination in the Grade B and Grade A manufacturing areas. The data shows the Grade B corridor used to access fill lines (b) and (b) may be a route of contamination to the Grade A areas. Effective actions have not been taken to address these recurrences.
- g. Thorough assessments to establish rationale for viable environmental monitoring limits, frequencies, and locations have not been documented. For example, the assessments lack documented rationale for the following:
  - a. The personnel working with their body (b) (4) inside of the Grade A stopper addition area aseptically open bags of sterile stoppers and add sterile stoppers via a sterilized chute. The operator is held to Grade B limits during personnel monitoring. This allows for (CFU on the operators hands without requiring any additional action.
  - b. There is no viable air monitoring via settle plates or active air sampling of the Line (b) (4) Grade A conveyor area (b) (4) the stoppering station and the capping room. A surface

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monitoring sample is taken in this area (b) (4) per (b) (4), although filling can occur up to (b) (4) a (b) (4). Personnel move through this area with their (b) (4) body in the Grade A area and the barrier (b) (4) were observed to remain open to the Grade B areas for approximately 3-4 minutes.

- c. Monitoring of sterilized tools including the (b) (4) used for aseptically opening stopper bags, the sterile rod for removing stuck stoppers, and the sterile forceps for removing fallen or jammed stoppers and vials are only conducted (b) (4) per (b) (4). Batches could be filled up to (b) (1) times per (b) (4). Additionally, there are (b) forceps located in the Grade A filling barrier and the personnel performing monitoring chooses one forceps at random. They do not document which forceps is chosen for sampling.
- d. Viable air monitoring in the Grade A (b) (4) zone where the (b) (4) is unloaded and filling machine parts are stored is Grade A is only conducted (b) (4) per (b) (4).
- e. Procedures and environmental monitoring records lack descriptions of the locations to be sampled. For example, the Grade A (b) (4) in the stopper addition is to be monitored, but the location is chosen at random. Sampling of Grade B floors and walls is done at random. The location chosen is not documented.
- h. Non-viable particle (NVP) measurements are taken in the Line (b) (a) Grade A glass vial conveyor area (b) (4) the stoppering station and the capping room. However, the NVP probe is located (approximately (b) (4) ) away from the personnel access area and the NVP data does not accurately reflect the NVP levels when personnel enter and/or exit the Grade A glass vial conveyor area.
- i. NVP measurements are taken during routine aseptic filling process of the (b) (4) drug

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•				100
	s via the use of stationary and mobil			
loading	of the (b) (4) glass vials	into the (b) (4)	the NVP measure	
	l (i.e., (b) (4) batch (b) (4) per (b) (4) d			ria the use of
	mobile NVP monitoring equipment		_	
	ocument the time (as confirmed by		Assurance) when the glass vials in	
	ments are taken during the loading operate and ensure that the (b) (4)		giass viais in ls are maintained in	
	nent. In addition:	open via	is are manitamed in	a Grade A
	nem. In addition.			
a. 7	The "Monitoring of Non Viable Part	icles Count" docu	ment # SOP MFG-0	1153 instructs
	o "Take the particle count under the			
I	However, the SOP is silent with resp	ect to establishing	the manner of how	the NVP probe
S	should be positioned; and,			
	The SOP is deficient with regards to			
	operational height" and there is no nonitoring should take place in the		n of where exactly the A area.	ne NVP
1	nonitoring should take place in the	Grade	e A area.	
j. In <sup>(b) (4)</sup>	the (b) (4)	sentically filled of	lass vials are manual	ly transferred
from the	filling equipment to the (b) (4)	via the use of a (b)	(4) Sen	ni-Automatic
(d) Load	ding Trolley. The NVP isokinetic pr	obe ( <sup>(b) (4)</sup> ) is posit	ioned approximately	(b) (4)
			ilter face. The NVP	
position	ed or located near the work surface.	Rather, the isokin	etic probe is position	
the top o	of the (b) (4) is approximately vials;	(approximately (b)	) away from t	ne Corcor
	vidis,			
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Ahmedabad, Gu	ujarat, 382210 India	Drug Manufacturer		
Assuran counter.  OBSERVATIO	the qualification of the semi-automatice, explained that the NVP measure However, the location and/or place  ON 6  area air supply lacks an appropriate	ments were obtained viment of the isokinetic p	ia the use of a mobile particle	
TI II' D	1 (D ' ( O E ' ' 1 ')	1.1 ((A D 10) 1)	C IDIAC G 4 11	
	lent Projects & Engineering describ n the specification and working diag			
	sions, geometry and location of all			
	ing diagrams for the air handling un			
(b) (4)	manufacturing facilities that are u			
commodities. In addition;				
4. There are approximately (b) air handling units in the approximate (b) (4) square meter building that contain the aseptic filling lines in the parenteral and (b) (4) manufacturing facilities. The building also houses, for example, the manufacturing operations for the tablet, aerosol, (b) and (b) (4) capsules, (b) (4) and (b) (4) operations. Notwithstanding the aseptically filled sterile and are manufactured in tablet facility (b) (a), tablet facility (b) (a), and (b) (4) . The (b) (4) drugs and (b) (4) (4) (b) (4) (b) (4) (b) (4) (b) (4) (b) (4)				
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	DEPARTMENT OF HEAL FOOD AND DRIV	TH AND HUMA G ADMINISTRATIO		
DISTRICT ADDRESS AND PHON	IE NUMBER		DATE(S) OF INSPECTION	
Vita	vn Drive, Room 2032		4/22/2019-5/3/2019* FEI NUMBER	
Rockville, MI	MD 20857		3002984011	
NAME AND TITLE OF INDIVIDUA			**	
Umesh Kumar (	Supta, Campus Head	STREET ADDRESS		
Cadila Health	care Limited		20 8a Village-Moraiya	
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMEN		
Ahmedabad, Gu	njarat, 382210 India	Drug Manu	nufacturer	
There are no "As Built" engineering diagrams to ensure that the return air from the production areas that are used to manufacture the ducts for the air handling unit used for the aseptic filling processes;  5. There is an "As Built" engineering diagram for the (b) (4) air ducts, that is, diagram #TTT-DRG-0506-46-03 dated 11.02.06. The Head of Non-(b) (4) Quality Assurance Deputy General Manager confirmed that the individuals that reviewed and approved the "As Built" diagram no longer work at the company and the current Quality Unit has not reviewed and approved the 11.02.06 dated "As Built" diagram for the (b) (4) operations.				
Failure to maintain a backup file of data entered into the computer or related system.  Regarding the (b) (4) process, the SCADA (Supervisory Control and Data Acquisition) computer system monitors and controls the processing parameters and should there be aberrant events (e.g., process failure, PC failure, instrument failure, device failure, device state failure and/or utility failure) the computer based systems electronically captures the alarmed events. The (b) (4) operator explained that the data that is captured by the SCADA is retained for approximately 6-months				
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PREVIOUS EDITION OBSOLETE

	EALTH AND HUMAN SERVICES DRUG ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	4/22/2019-5/3/2019*
Rockville, MD 20857	FEINUMBER 3002984011
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED  Umesh Kumar Gupta, Campus Head	
FIRM NAME	STREET ADDRESS
Cadila Healthcare Limited	419 & 420 8a Village-Moraiya
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer
(Note: the computer's memory capacity is (b) by displaying all the currently retained to the present (April 29, 2019). In addition:	GB). For example, the (b) (4) operator demonstrated data, which is only as far back as October 28, 2018

k. On January 5, 2019, deviation DC/2019/014 was initiated due to (b) (4) (b) (4) (computer monitor and CPU breakdown observed during (b) (4) of (b) (4) (b) (4) Injection (b) (a) mg/vial injection batch no. (b) (4) (b) (4) (c) (d) (d) (e) (e) (e) (for (b) (4) (for (b) (for (b) (4) (for (b) (4) (for (b) (4) (for (b) (for (b) (4) (for (b) (4) (for (b) (for (b) (4) (for (b) (f

Deviation DC/2019/014 was closed and approved on February 1, 2019 by the Plant Head, Quality Assurance. Your Corrective and Preventative Action was to install an external hard drive. The TR external hard drive for purchase order is dated April 15, 2019. This is approximately 73 days after Deviation DC/2019/014 was closed and 100 days after your PC data crashed. You could not provide justification for the time-lapse between deviation occurrence and external drive purchase.

- The General Manager Quality Assurance confirmed that they do not track or trend the process aberrant alarm events that are captured by the SCADA computer based system.
- m. The "Computer System Validation Master Plan" document #CQA/CSVMP/00 dated 01/12/15 "...provides guidance and typical approach to validate a computerized system. It also serves as a resource for development of specific computer system validation project plans." In addition, the Computer System VMP establishes and provides guidance regarding for example, "...Back-up and restoration policies are in place and effective for Operating software, application software, configuration settings and data and are getting backed up on an external or any certified media to

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	Programs Employee		

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 13 of 23 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
12420 Parklawn Drive, Room 2032	4/22/2019-5/3/2019*			
Rockville, MD 20857	FEI NUMBER 3002984011			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	,			
Umesh Kumar Gupta, Campus Head				
FIRM NAME	STREET ADDRESS			
Cadila Healthcare Limited	419 & 420 8a Village-Moraiya			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer			

ensure access if on-line records are lost either through accidental deletion or equipment problems." The (b) (4) equipment operator, the Senior Executive and Quality Assurance confirmed that they currently do not have the capacity to back up the electronic data that is captured by the (b) (4) SCADA system.

- n. A (b) (4) process report is printed out subsequent the routine (b) (4) process, which includes printing out a color coded graphical representation of the (b) (4) process. The (b) (4) equipment operator, the Assistant Manager and Quality Assurance explained that they perform a "verification and confirmation" of the (b) (4) processing data. As an example, with the Vice President of Injectable Operations and Quality Assurance it was calculated that there are approximately (b) (4) data points summarized in the digital print out. However, there is no specific language in the standard operating procedure (SOP) to establish the content of the verification and confirmation process (i.e., what specific process data is verified and confirmed).
- o. The "Rights of authorization level" lists the personnel who are allowed access to the computer. Of the (b) individuals that are listed as "active", 9 individuals no longer work for the company or have moved to other departments.

### **OBSERVATION 8**

There is a failure to thoroughly review any unexplained discrepancy whether or not the batch has been already distributed.

 Investigations into failures during periodic qualification of the terminal sterilization cycles did not identify assignable root causes for failures to requalify the previously validated cycle parameters.

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	DEPARTMENT OF HEAL' FOOD AND DRUG	TH AND HUMA ADMINISTRATIO			
DISTRICT ADDRESS AND PHON	ENUMBER Vn Drive, Room 2032		DATE(S) OF INSPEC	TION .9-5/3/2019*	
Rockville, MI		-	FEI NUMBER	SACTO	
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NAME AND TITLE OF INDIVIDUA					
Umesh Kumar (	Supta, Campus Head	CTOCCT ADDRESS			
Cadila Health	ncare Limited	STREET ADDRESS	8a Vill	age-Moraiya	
CITY, STATE, ZIP CODE, COUNT	TRY	TYPE ESTABLISHMEN	T INSPECTED		
Ahmedabad, Gu	njarat, 382210 India	Drug Manu	facturer		
f f f (t	nvestigation DC/2018/381 did not experiodic requalification of (b) (4) periodic qualification of load (b) (a) not achieved in (b) (4) number (b) and (b) (4) representation of load (b) (a) and (b) (b) (c) (d) from (b) (d) for (b) (d) and (d) (d) (example 1) (example 2) (b) (d) and (example 3) (example 2) (example 2) (example 3) (example 4) (example 2) (example 3) (example 4) (	inimum load d (b) during and (b) eams, cycle to (b) (4) me (b) (4) tin assignable	Injecti d) it was not the cycle at the cycle	tion half in half with the requested that the requested and there were the restigation DC/20 as for Load-(h) which is montain (b) (4) to have the luring sterilization (b) (4) phase'	ial. During uired (b) was ) (4)  018/381 states: was changed ore efficient for e (b) (4) on cycle '. However,
r g n c. I F	nvestigation DC/2017/580 did not e periodic requalification of (b) (4) (minimum numbered (b) -(4) (minimum numbered (b) -(4) (minimum numbered (b) -(4) (minimum numbered (b) -(4) (minimum numbered (b) (a) (minimum numbered (b) (b) (4) (minimum numbered (b) (4) (4) (minimum numbered (b) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Injection I load) the restablish an a	USP ml in quired (b) value (c) ml in (b) (d) ml in (b) (d) inmum ster	m ml vial. During was not achieved cause for failure ml vial. During	ng periodic d in (b) (4) during the periodic
2. (b) (4) consume consume (b) (4)	tablets (b) g process validater complaints have been documented complaint documented, 0 retain of Complaint investigation included of	r complaint	return sam	ples were tested	for (b) (4)
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	DEPARTMENT OF HEA	LTH AND HUM UG ADMINISTRAT		
DISTRICT ADDRESS AND PHON	NE NUMBER	OG ADMINISTRAT	DATE(S) OF INSPECTION	
Rockville, MI	vn Drive, Room 2032		4/22/2019-5/3/2019* FEINUMBER	
ROCKVIIIC, III	20007		3002984011	
NAME AND TITLE OF INDIVIDUA				
Umesh Kumar (	Gupta, Campus Head	STREET ADDRESS		
	ncare Limited	CONTRACTOR OF STREET	0 8a Village-Moraiya	
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHM	ENT INSPECTED	
Ahmedabad, Gu	ijarat, 382210 India	Drug Man	ufacturer	
whether other dro You detected conduct smell) compared to the conduct smell) compared to the conduct smell) compared to the conduct smell of the conduct smell of the conduct smell) compared to the conduct smell of the c	However, no analytical testing we used in the form a products which resulted in Organ a risk assessment to determine who complaints have the same/similar had been been used in the form a risk assessment to determine who complaints have the same/similar had been been used in the following production and between batch and	as conducted nulation continuously (b) (c) ell) is due to ether other peadspace randomics (b) (4) es. Currently for lity Assuran ocess validate	aining complaint batches w (4) smell).  the bottle headspace area. You be a considered to assure the apport or are represented to be a considered to be at the bottle has not be at the considered (b) (4) at your fixed (b) (4) ce, (b) (4) at your fixed (b) (4) itesting the considered to be a considered (b) (b) (ce, (b) (4) at your fixed (b) (d) itesting the considered to be a considered (b) (d) at your fixed (b) (d) itesting the considered (ce, (b) (d) at your establish	at the drug possess.  Tablet range.  has been ed (b) (4)
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE  Justin A Boyd, Investigator  Drug Cadre  Thomas J Arista, National I  Rita K Kabaso, Office of In  Programs Employee	Expert	Justin A Boyd Investigator - Dedicated Drug Cadre Signed By 2000358686 X Date Stigned 06-03-2019 10 40 56	DATE ISSUED 5/3/2019
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE I	NSPECTIONAL O	DBSERVATIONS	PAGE 16 of 23 PAGES

	DEPARTMENT OF HEAD FOOD AND DRUG		
DISTRICT ADDRESS AND PH	one number wn Drive, Room 2032		DATE(S) OF INSPECTION 4/22/2019-5/3/2019*
Rockville, MD 20857			FEI NUMBER
			3002984011
NAME AND TITLE OF INDIVID	UAL TO WHOM REPORT ISSUED		J.
Umesh Kumar	Gupta, Campus Head		
FIRM NAME	T	STREET ADDRESS	
Cadila Healt	hcare Limited	419 & 42	20 8a Village-Moraiya
	Gujarat, 382210 India	SA CONTRACTOR OF THE PARTY OF T	nufacturer
validati initiated indicate (b) (4)  q. (b) (4)  manufa (b) (4)  to (b) (4)  (b) (4)  There is equival does not	from different locations of on studies. According to your (b) (4) d on January 10, 2018 regarding Orged that the most probable cause for the in your formulation.  Tablet (b) g validated hold cturing process. Hold time validation batch (b) (4) in (b) (4) (b) (4) g was obtained from each concontainer. Hold time study was conducted in the (b) (4) or (b) (4) storage container to the (b) (4) or (b) (4) storage container.	time studies for (b) (4) cons anopathy (l) time studies for (b) (4) containers tainer using ucted from ating that proportions. In a	was not included in process sumer complaint (b) C-0301-2018-0002 smell), your investigation is due to the use of was conducted by dispensing (b) (4) and placed in a (b) (4) and placed in a (b) (4) and the (b) g sample over (b) (4) period. Toduct (b) (4) in the (b) g study sample is addition, your sampling plan for (b) (4) batches. The following parameters were
compre for (b) (4 samplin manufa r. Produc establis impact	ssion hold time. Samples were kept of a plan does not evaluate for variabil cturing to packaging has been estable tion personnel are permitted to set the hed in the batch records without requestion the validated process. Tablet com	ity within a ished for no e compaction iring a docupaction for	
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PREVIOUS EDITION OBSOLETE

	TH AND HUMAN SERVICES GADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER  12420 Parklawn Drive, Room 2032  Rockville, MD 20857	DATE(S) OF INSPECTION  4/22/2019-5/3/2019*  FEI NUMBER  3002984011
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED  Umesh Kumar Gupta, Campus Head	,
FIRM NAME	STREET ADDRESS
Cadila Healthcare Limited	419 & 420 8a Village-Moraiya
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer
For example, the established batch record line (b) (A) KN to (b) (4) KN. The actual range used (b) (4) KN to (b) (4) KN and the (b) (4) was established for (b) (4) tablet batch used was (b) KN to (b) (b) (c) KN.	mit for (b) (4) tablet batch (b) (4) was for the (b) (4) of the compression machine was (b) (4) KN to (b) (4) KN. The batch record limit
parenteral facility Fill Lines (b) (4) and change control documents CC/15/EG/044 d August 10, 2015, the reason/justification for practices and upgrading the facility". The in lines (b) (4) were performed on August 2015; (b) (4) Facility (b) the CCTV I/OQ w functional checks performed during the I/OC Shutdown of the DVR, Locking the DVR, a installation and operation of a digital video:	p. DVR & Monitoring Screens were installed for the Facility (b). As described in the ated April, 27, 2015 and CC/15/EG/066 dated change is "To keep close watch on production astallation and operational qualifications (I/OQ) for for lines (b) (4) in September 2015 and for the was performed on May 2015. Some of the key Q include but not limited to Startup of the DVR, and Status Checking of the DVR. Despite the recorder, the Head of Non-(b) (4) Quality Assurance by do not record the production operations. In
video record all aseptic processing s	urance Deputy General Manager explained that they imulations (aka media fills) via the use of a small and located outside of the fill rooms; the video

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	Programs Employee		

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	TH AND HUMAN SERVICES G ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	4/22/2019-5/3/2019*
Rockville, MD 20857	FEI NUMBER 3002984011
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	,
Umesh Kumar Gupta, Campus Head	
FIRM NAME	STREET ADDRESS
Cadila Healthcare Limited	419 & 420 8a Village-Moraiya
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer

recording is taken from a viewing window (approximately (b) (4) x (b) (4) ) in the personnel corridor. Regarding (b) (4) fill line, there are a number of objects that prevent from having an unobstructed view of the aseptic processing simulations. For example, the fill equipment, the fill equipment (b) (4) , the size and movement of the mobile transfer trolley, as well as, the personnel activities performed in the Grade A and Grade B areas, present limitation with regards to observing the aseptic process, which is further hindered by the location of the video camera and physical limitation of the viewing window;

- b. There is a CCTV system with a video camera that provides the ability to observe the Grade A and Grade B areas in front of (b) (4) 2 without the aforementioned obstructions. However, the Head of Non-(b) (4) Quality Assurance Deputy General Manager explained that they do not use the CCTV to record the aseptic media filling process; and,
- c. The CCTV system has a video camera to observe various aseptic filling operations in Fill Line . However, one of the cameras is positioned in a manner such that the structure of the filling equipment obstructs the ability to observe the aseptic filling operations.
- 2. The protocol and report regarding the personnel "Aseptic Area/Clean Room Garments Qualification Study After Maximum Sterilization Cycle (Start From Washing, Drying, Sterilization and Usage) document # OS/VP/610 dated March 08, 2016 is used to supports and "...recommends the use of personnel garments up to (b) washing, drying and sterilization cycle and usage for routine commercial purpose." Evaluations and determinations of the garments are performed via a German company vendor. For example, determinations of the following i.e.,
  - (b) (4) ((b) (4) ); (b) (4) (b) (4) (b) (4) (c) (b) (4) (d) (d) (d) (e) (d) (e) (find the distribution of the distribution of

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LTH AND HUMAN SERVICES UG ADMINISTRATION
DATE(S) OF INSPECTION
4/22/2019-5/3/2019*
FEI NUMBER 3002984011
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STREET ADDRESS
419 & 420 8a Village-Moraiya
TYPE ESTABLISHMENT INSPECTED
Drug Manufacturer

pore size ((b) (4) particulate contaminant by (b) (4) Method (b) -method according to (b) (4) (b) (4) particulate contaminant by (b) (4)

Despite the establishment of standard operating procedures regarding vendor qualification for excipients and qualification for API, a similar consideration was not performed for the German contract vendor. In addition:

- a. There is a current "Qualification of Service Provider" document #SOP-CQ-00058 dated January 09, 2018. Corporate Quality Assurance confirmed that the company has not retrospectively performed a vendor audit of the contractor noted above;
- b. The biological indicators (BI) used in support of the (b) (4) sterilization process are purchased from an outside vendor. However, Corporate Quality Assurance confirmed that they have not performed a vendor audit of their BI supplier.
- 3. The firm uses a Building Management System (BMS) to monitor the temperature, percent relative humidity and air pressure differences between the Class D glass washing room and the Grade B aseptic filling suites. The BMS installation and qualification (I/OQ) is dated December 17, 2008. The Head of Non-(b) (4) Quality Assurance Deputy General Manager confirmed that the individuals that reviewed and approved the I/OQ documents no longer work at the firm and the current Quality Unit has not reviewed and approved the 2008 I/OQ documents.

### **OBSERVATION 11**

Laboratory controls do not include the establishment of scientifically sound and appropriate test procedures designed to assure that drug products conform to appropriate standards of identity, strength, quality and purity.

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	DEPARTMENT OF HEAL FOOD AND DRU	TH AND HUMA G ADMINISTRATI		
DISTRICT ADDRESS AND PHON			DATE(S) OF INSPECTION	
12420 Parklawn Drive, Room 2032 Rockville, MD 20857			4/22/2019-5/3/2019* FEINUMBER	
ROCKVIIIE, III	20037		3002984011	
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED			
	Gupta, Campus Head			
FIRM NAME	supea, campus nead	STREET ADDRESS		
Cadila Health	ncare Limited	419 & 42	0 8a Village-Moraiya	
CITY, STATE, ZIP CODE, COUNT		TYPE ESTABLISHME		
Ahmedabad, Gu	ijarat, 382210 India	Drug Man	ufacturer	
Analysis been eva (b) (4) was not  2. Method (b) (4) with (b) (4) standard used to (b) (4) the approximately (b) (4) representation of the control of the co	During the preparate s were prepared with both evaluate (b) (4) tablets for (b) (4) peaks co-elute, potentially reducing oved method.  "Operation, Calibration and Data 40, incidents will be generated for it for more. No sound justification was stative of your incubator historical to	there was a there	is of (b) (4) tablets for tablets for sequence QC863V tablets for (b) (4) tablets for tablets for sequence QC863V tablets for (b) (4) tablets for (b) . To cy of the standard area countries of Online Data Logger" So the for incubator temperature for the (b) (4) limit as it is nexcursions.	that  (b) (4)  Its be prepared EN1606A, the dards could be the (b)  (a) and the compared to  (b) (a) and the compared to  (c) (b) and the compared to
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Programs Employee

	LTH AND HUMAN SERVICES UG ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	4/22/2019-5/3/2019*
Rockville, MD 20857	FEI NUMBER 3002984011
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	
Umesh Kumar Gupta, Campus Head	
FIRM NAME	STREET ADDRESS
Cadila Healthcare Limited	419 & 420 8a Village-Moraiya
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Ahmedabad, Gujarat, 382210 India	Drug Manufacturer

There is no documented rationale to explain how the critical, major, and minor limits for rejected parenteral vials during visual inspection are established. Sources of commonly observed major defects have not been further investigated, including high volume vials, low volume vials, or vials with fibers.

## **OBSERVATION 13**

Aseptic processing areas are deficient regarding the system for cleaning and disinfecting the room and equipment to produce aseptic conditions.

Sterile wipes used during cleaning of equipment in the ISO5 and ISO7 aseptic filling lines, intended to remove particles from equipment surfaces, were observed to contain loose fibrous threads.

### **OBSERVATION 14**

Master production and control records lack complete manufacturing and control instructions.

The (b) (4) process for Fill Line (b), during routine aseptic filling and the aseptic process simulation, the microbial growth media is transferred to a sterilized (b) (4) holding vessel in room (Grade B). A production room operator confirmed there is no written standard operating procedure, and/or in the BMR, that specifically describes and establishes that the tubing is to be manually transferred from the Grade B area into the Grade D room.

### \*DATES OF INSPECTION

4/22/2019(Mon), 4/23/2019(Tue), 4/24/2019(Wed), 4/25/2019(Thu), 4/26/2019(Fri), 4/29/2019(Mon), 4/30/2019(Tue), 5/01/2019(Wed), 5/02/2019(Thu), 5/03/2019(Fri)

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	Rita K Kabaso, Office of International	***************************************	
	Programs Employee		

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#### DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 4/22/2019-5/3/2019\* FEI NUMBER Rockville, MD 20857 3002984011 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Umesh Kumar Gupta, Campus Head FIRM NAME STREET ADDRESS Cadila Healthcare Limited 419 & 420 8a Village-Moraiya TYPE ESTABLISHMENT INSPECTED CITY, STATE, ZIP CODE, COUNTRY Ahmedabad, Gujarat, 382210 India Drug Manufacturer

Thomas J Arista
National Expert
Signed By: Thomas J. Arista -S
Date Signed: 05-03-2019 10:41:25

Rifa K Kabaso Office of International Programs Employee Signed By 2001767329 Date Signed 05-03-2019 10 41 56

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